# CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

**NABL** - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377


Job No: CTCE/BBMP/W.No.03/YGM/CSR-04/014k/CEMENT/2016-17 Date: 18.04.2016

## TEST REPORT ON CEMENT

| | | |
|---|---|---|
| * CUSTOMER | : | **Asst. Executive Engineer**, Yelahanka New Town Sub Division, BBMP, Bangalore. |
| *AGENCY | : | **Mr. Y.G. Manjunath,** No. 476, 3rd Cross, Attur, Yelahanka, Bangalore. |
| *NAME OF THE WORK | : | Maintenance of footpaths, replacement of damaged covering slabs, kerbs and other emergency works in Ward No. 03 of Yelahanka Satellite Town Sub Division, BBMP, Bangalore. |
| REFERENCE | : | BBMP/AEE/YNTSD/ /2016-17 Dated: 16.04.2016 |
| SAMPLE ID | : | Cement |
| SAMPLE RECEIVED ON | : | 16.04.2016 |
| PERIOD OF TESTING | : | 16.04.2016 to 18.04.2016 |

The results of the tests conducted on the cement sample are as follows:

| Sl. No | Descriptions | Test Method as per IS | Test Result | Requirements as per IS: 8112-2013 |
|---|---|---|---|---|
| 1 | Standard Consistency | IS-4031 (Part -4) 1988(RA-2009) | 29.50% | - |
| 2 | a) Initial Setting Time | IS-4031 (Part -5) 1988(RA-2009) | 125 Minutes | Not Less than 30 Minutes |
| | b) Final Setting Time | IS-4031 (Part -5) 1988(RA-2009) | 480 Minutes | Not More than 600 Minutes |
| 3 | Soundness by Le Charther Method | IS-4031 (Part-3) 1988(RA-2009) | 1 mm | Not more than 10mm |

*Information is furnished by the Customer/Representative.

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⇒ Any Query regarding the report must be reported within 30 days from the date of testing.

VISHWANATH .C
Quality Manager

Pradeep AE 18/4

Assistant Engineer
Ward No. 03
Yelahanka Satellite Town
Sub-Division, BBMP
Bengaluru-64


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Building & Highway Material Testing Laboratory

**NABL** - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377


Job No: CTCE/BBMP/W.No.03/YGM/CSR-04/014k/SAND Gradation/2016-17 : 18.04.2016

## TEST REPORT ON DETERMINATION GRADATION OF FINE AGGREGATE

| | |
|---|---|
| * Customer | : Asst. Executive Engineer, Yelahanka New Town Sub Division |
| * Agency | : Mr. Y.G. Manjunath, No. 476, 3rd Cross, Attur, Yelahanka, Bangalore. |
| * Name of Work | : Maintenance of footpaths, replacement of damaged covering slabs, kerbs and other emergency works in Ward No. 03 of Yelahanka Satellite Town Sub Division, BBMP, Bangalore. |
| Reference | : BBMP/AEE/YNTSD/ /2016-17 Dated: 16.04.2016 |
| Technical Reference | : IS : 2386 Part 1 - 1963 RA-2007 |
| Sample ID | : Fine Aggregate - Sample 2 |
| Sample Received on | : 16.04.2016 |
| Date of Testing | : 18.04.2016 |

Total Wt. of Aggregates in gms 1000

| Is Sieve Size in mm | Cumulative Weight Passing in % | Spec.Limits as per IS 383-1970 (RA- 2007) | | | |
|---|---|---|---|---|---|
| | | Zone-I | Zone-II | Zone-III | Zone-IV |
| 10 | 100 | 100 | 100 | 100 | 100 |
| 4.75 | 92.05 | 90-100 | 90-100 | 90-100 | 95-100 |
| 2.36 | 77.43 | 60-95 | 75-100 | 85-100 | 95-100 |
| 1.18 | 57.36 | 30-70 | 55-90 | 75-100 | 90-100 |
| 600 Micron | 37.80 | 15-34 | 35-59 | 60-79 | 80-100 |
| 300 Micron | 16.95 | 5-20 | 8-30 | 12-40 | 15-50 |
| 150 Micron | 4.13 | 0-10 | 0-10 | 0-10 | 0-15 |

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-II specific limits.

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Bengaluru-560 064


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T-2377


Job No.: CTCE/BBMP/W.No.03/YGM/CSR-04/014k/AGG/GR/2016-17 : 18.04.2016

## TEST REPORT ON COARSE AGGREGATES

| | |
|---|---|
| * Customer | : **Asst. Executive Engineer,** Yelahanka New Town Sub Division, BBMP, Bangalore. |
| * Agency | : **Mr. Y.G. Manjunath,** No. 476, 3rd Cross, Attur, Yelahanka, Bangalore. |
| * Name of Work | : Maintenance of footpaths, replacement of damaged covering slabs, kerbs and other emergency works in Ward No. 03 of Yelahanka Satellite Town Sub Division, BBMP, Bangalore. |
| Reference | : BBMP/AEE/YNTSD/ /2016-17 Dated: 16.04.2016 |
| Technical Reference | : IS : 2386 Part 1 -1963 RA 2007 |
| Sample ID | : Coarse Aggregates (40mm) - Sample 2 |
| Sample Received on | : 16.04.2016 |
| Date of Testing | : 18.04.2016 |

Total Wt. of Aggregates in gms= **7000**

| Is Sieve Size in mm | Cumulative Weight Passing in % | Spec.Limits as per IS 383-1970 (RA- 2007) | |
|---|---|---|---|
| | | Graded | Single Sized |
| 80 | 100 | 100 | - |
| 63 | 100 | - | 100 |
| 40 | 96.39 | 95-100 | 85-100 |
| 20 | 33.17 | 30-70 | 0-20 |
| 10 | 13.36 | 10-35 | 0-5 |
| 4.75 | 2.14 | 0-5 | - |

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits.

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# CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

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**NABL** - Accredited Laboratory as per ISO / IEC-17025 : 2005

JAS-ANZ BSCIC ISO 9001 REGISTERED


Job No: CTCE/BBMP/W.No.03/YGM/STEEL/2016-17 21.04.2016

## TEST REPORT ON REINFORCEMENT STEEL

Customer : **Asst. Executive Engineer**, Yelahanka New Town Sub Division, BBMP, Bangalore.

Agency : **Mr. Y.G. Manjunath,** No. 476, 3rd Cross, Attur, Yelahanka, Bangalore.

Name of the Work : Maintenance of footpaths, replacement of damaged covering slabs, kerbs and other emergency works in Ward No. 03 of Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Reference : BBMP/AEE/YNTSD/ /2016-17 Dated: 16.04.2016

Date of Test : 21.04.2016

Technical Reference : IS: 1786-2008

| Sl. No | Nominal size (dia) (mm) | Mass per metre (Kg/mtr) | TENSILE STRENGTH | | | Bend Test | Rebend Test |
|---|---|---|---|---|---|---|---|
| | | | 0.20% proof stress/Yield stress $N/mm^2$ | Tensile strength (Ultimate stress) $N/mm^2$ | Elongation percent gauge length | | |
| 1 | 12 | 0.89 | 516 | 559 | 13.45 | O.K | O.K |

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# CIVIL-TECH CONSULTANTS AND ENGINEERS

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Job No.: CTCE/BBMP/W.No.03/YGM/STEEL/2016-17 21.04.2016

## TEST REPORT ON REINFORCEMENT STEEL

| | | |
|---|---|---|
| Customer | : | **Asst. Executive Engineer**, Yelahanka New Town Sub Division, BBMP, Bangalore. |
| Agency | : | **Mr. Y.G. Manjunath,** No. 476, 3rd Cross, Attur, Yelahanka, Bangalore. |
| Name of the Work | : | Maintenance of footpaths, replacement of damaged covering slabs, kerbs and other emergency works in Ward No. 03 of Yelahanka Satellite Town Sub Division, BBMP, Bangalore. |
| Reference | : | BBMP/AEE/YNTSD/ /2016-17 Dated: 16.04.2016 |
| Date of Test | : | 21.04.2016 |
| Technical Reference | : | IS: 1786-2008 |

| Sl. No | Nominal size (dia) (mm) | Mass per metre (Kg/mtr) | TENSILE STRENGTH | | | Bend Test | Rebend Test |
|---|---|---|---|---|---|---|---|
| | | | 0.20% proof stress/Yield stress $N/mm^2$ | Tensile strength (Ultimate stress) $N/mm^2$ | Elongation percent gauge length | | |
| 1 | 16 | 1.58 | 520 | 567 | 13.75 | O.K | O.K |

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# CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

**NABL** - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377


Job No.: CTCE/BBMP/WNo.03/YGM/CSR-04/014k/CUBE/2016-17 23.05.2016

## TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

| | |
|---|---|
| * Customer | : **Asst. Executive Engineer,** Yelahanka New Town Sub Division, BBMP, Bangalore. |
| * Agency | : **Mr. Y.G. Manjunath,** No. 476, 3rd Cross, Attur, Yelahanka, Bangalore. |
| * Name of the work | : Maintenance of footpaths, replacement of damaged covering slabs, kerbs and other emergency works in Ward No. 03 of Yelahanka Satellite Town Sub Division, BBMP, Bangalore. |
| Reference | : BBMP/AEE/YNTSD/ /2016-17 Dated: 16.04.2016 |
| * Sample ID | : Culvert Bottom Concrete |
| Size of cubes | : 150mmx150mmx150mm |
| Cross Sectional Area | : 22500 $mm^2$ |
| Technical Reference | : IS: 516-1959 (Reaffirmed 2008) |
| * Grade of Concrete | : $M_{25}$ |
| Compressive Strength as on | : $28^{th}$ day |
| Sample Received on | : 23.05.2016 |

| Sl.No. | * Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength ($N/mm^2$) |
|---|---|---|---|---|---|
| 1 | 25.04.2016 | 23.05.2016 | 8.147 | 470.5 | 20.91 |
| 2 | 25.04.2016 | 23.05.2016 | 8.196 | 498.6 | 22.16 |
| 3 | 25.04.2016 | 23.05.2016 | 8.231 | 482.3 | 21.44 |

* Information is furnished by the Customer/Representative

Civil-Tech Consultants & Engineers Bangalore

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VISHWANATH .C
Quality Manager

AE 23/5


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# CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

**NABL** - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377


Job No.: CTCE/BBMP/W.No.03/YGM/CSR-04/014k/CUBE/2016-17 26.05.2016

## TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

| | |
|---|---|
| * Customer | : **Asst. Executive Engineer,** Yelahanka New Town Sub Division, BBMP, Bangalore. |
| * Agency | : **Mr. Y.G. Manjunath,** No. 476, 3rd Cross, Attur, Yelahanka, Bangalore. |
| * Name of the work | : Maintenance of footpaths, replacement of damaged covering slabs, kerbs and other emergency works in Ward No. 03 of Yelahanka Satellite Town Sub Division, BBMP, Bangalore. |
| Reference | : BBMP/AEE/YNTSD/ /2016-17 Dated: 16.04.2016 |
| * Sample ID | : Culvert Side Wall Concrete |
| Size of cubes | : 150mmx150mmx150mm |
| Cross Sectional Area | : 22500 $mm^2$ |
| Technical Reference | : IS: 516-1959 (Reaffirmed 2008) |
| * Grade of Concrete | : $M_{20}$ |
| Compressive Strength as on | : $28^{th}$ day |
| Sample Received on | : 26.05.2016 |

| Sl.No. | * Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength ($N/mm^2$) |
|---|---|---|---|---|---|
| 1 | 28.04.2016 | 26.05.2016 | 8.164 | 475.8 | 21.15 |
| 2 | 28.04.2016 | 26.05.2016 | 8.328 | 502.4 | 22.33 |
| 3 | 28.04.2016 | 26.05.2016 | 8.259 | 489.7 | 21.76 |

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Received AE 26/5

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# CIVIL-TECH CONSULTANTS AND ENGINEERS

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**NABL** - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377


Lab No: CTCE/BBMP/W.No.03/YGM/CSR-04/014k/CUBE/2016-17 03.06.2016

## TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

| | |
|---|---|
| * Customer | : **Asst. Executive Engineer,** Yelahanka New Town Sub Division, BBMP, Bangalore. |
| * Agency | : **Mr. Y.G. Manjunath,** No. 476, 3rd Cross, Attur, Yelahanka, Bangalore. |
| * Name of the work | : Maintenance of footpaths, replacement of damaged covering slabs, kerbs and other emergency works in Ward No. 03 of Yelahanka Satellite Town Sub Division, BBMP, Bangalore. |
| Reference | : BBMP/AEE/YNTSD/ /2016-17 Dated: 16.04.2016 |
| * Sample ID | : Culvert Deck Slab Concrete |
| Size of cubes | : 150mmx150mmx150mm |
| Cross Sectional Area | : 22500 $mm^2$ |
| Technical Reference | : IS: 516-1959 (Reaffirmed 2008) |
| * Grade of Concrete | : $M_{30}$ |
| Compressive Strength as on | : $28^{th}$ day |
| Sample Received on | : 03.06.2016 |

| Sl.No. | * Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength ($N/mm^2$) |
|---|---|---|---|---|---|
| 1 | 06.05.2016 | 03.06.2016 | 8.425 | 515.6 | 22.92 |
| 2 | 06.05.2016 | 03.06.2016 | 8.362 | 502.7 | 22.34 |
| 3 | 06.05.2016 | 03.06.2016 | 8.279 | 483.5 | 21.49 |

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T-2377


Job No: CTCE/BBMP/WNo.03/YGM/CSR-04/014k/CUBE/2016-17 09.06.2016

## TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

| | |
|---|---|
| * Customer | : **Asst. Executive Engineer,** Yelahanka New Town Sub Division, BBMP, Bangalore. |
| * Agency | : **Mr. Y.G. Manjunath,** No. 476, 3rd Cross, Attur, Yelahanka, Bangalore. |
| * Name of the work | : Maintenance of footpaths, replacement of damaged covering slabs, kerbs and other emergency works in Ward No. 03 of Yelahanka Satellite Town Sub Division, BBMP, Bangalore. |
| Reference | : BBMP/AEE/YNTSD/ /2016-17 Dated: 16.04.2016 |
| * Sample ID | : Road Patch Work |
| Size of cubes | : 150mmx150mmx150mm |
| Cross Sectional Area | : 22500 $mm^2$ |
| Technical Reference | : IS: 516-1959 (Reaffirmed 2008) |
| * Grade of Concrete | : $M_{30}$ |
| Compressive Strength as on | : $28^{th}$ day |
| Sample Received on | : 09.06.2016 |

| Sl.No. | * Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength ($N/mm^2$) |
|---|---|---|---|---|---|
| 1 | 12.05.2016 | 09.06.2016 | 8.415 | 503.1 | 22.36 |
| 2 | 12.05.2016 | 09.06.2016 | 8.337 | 486.7 | 21.63 |
| 3 | 12.05.2016 | 09.06.2016 | 8.269 | 479.8 | 21.32 |

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VISHWANATH .C
Quality Manager

Accepted
10/9/16


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Lab No: CTCE/BBMP/W.No.03/YGM/CSR-04/014k/Precast Slab/2016-17 16.05.2016

## CEMENT CONCRETE CORE (PRECAST SLAB) TEST REPORT

| | | |
|---|---|---|
| Customer | : | **Asst. Executive Engineer,** Yelahanka New Town Sub Division, BBMP, Bangalore. |
| Agency | : | **Mr. Y.G. Manjunath,** No. 476, 3rd Cross, Attur, Yelahanka, Bangalore. |
| Name of work | : | Maintenance of footpaths, replacement of damaged covering slabs, kerbs and other emergency works in Ward No. 03 of Yelahanka Satellite Town Sub Division, BBMP, Bangalore. |
| Reference | : | BBMP/AEE/YNTSD/ /2016-17 Dated: 16.04.2016 |
| Technical Reference | : | IS:516-1959 (Reaffirmed 2008), SP-24:1983. |
| Sample ID | : | Precast Slab |
| Sample Received on | : | 11.05.2016 |
| Date of Testing | : | 16.05.2016 |

| Sl. No. | Dia of Core D (mm) | Height of Core H (mm) | Core Wt (Kg) | Density of Core (kg / m$^3$) | H / D | Correction factor (Based on H/D) | Failure Load (kN) | Core Strength ( N/mm$^2$) | Correction Factor for the Dia. (Strength of the Core x 1.08) | Corrected Cylinder Compressive Strength (N/mm$^2$) | Equivalent Cube Compressive Strength (N/mm$^2$) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 50.00 | 76.00 | 0.376 | 2519.67 | 1.52 | 0.965 | 32.1 | 16.36 | 17.67 | 17.05 | 21.31 |
| 2 | 50.00 | 78.00 | 0.390 | 2546.48 | 1.56 | 0.960 | 32.5 | 16.53 | 17.85 | 17.14 | 21.43 |
| 3 | 50.00 | 77.00 | 0.391 | 2586.16 | 1.54 | 0.965 | 32.8 | 16.69 | 18.03 | 17.40 | 21.75 |

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